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# COMBINED COLOR SPACE MATRIX TRANSFORMATION AND FIR FILTER

## ABSTRACT OF THE DISCLOSURE

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The same circuitry is used for effecting FIR filtering and color space transformation. The input to a multiply-add array of a conventional FIR filter is appropriately multiplexed to provide the alternative uses of the same multiply-add array. In this manner, for example, the same multiply-add array can be used for scaling an image and for transforming the image from one  
10 color space to another.

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